

Mini-POS Ticket Printer

User Guide

SMCWHS-POS

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Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, (example - use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Industry Canada - Class B

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus," ICES-003 of Industry Canada.

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques," NMB-003 édictée par l'Industrie.

Compliances

FCC - Class A

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

EC Conformance Declaration - Class A

SMC contact for these products in Europe is:

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Edificio Conata II,
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08970 - Sant Joan Despí,
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This information technology equipment complies with the requirements of the Council Directive 89/336/EEC on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility. and the amendments in the Council Directive 92/31/EEC, 93/68/EEC. For the evaluation of the compliance with these Directives, the following standards were applied:

RFI Emission: o Limit class A according to EN 55022:1998 + A1:2000

- Limit class A for harmonic current emission according to EN 61000-3-2/2000
- Limitation of voltage fluctuation and flicker in low-voltage supply system according to EN 61000-3-3/1995 + A1: 2001

Immunity: • Product family standard according to EN 55024:1998 + A1: 2001

- Electrostatic Discharge according to EN 61000-4-2:1995 + A1:2001 (Contact Discharge: ±4 kV, Air Discharge: ±8 kV)
- Radio-frequency electromagnetic field according to EN 61000-4-3:1995

- +A1: 2001 (80 - 1000 MHz with 1 kHz AM 80% Modulation: 3 V/m)
 - Electrical fast transient/burst according to EN 61000-4-4:1995 + A1: 2001 (AC/DC power supply: ± 1 kV, Data/Signal lines: ± 0.5 kV)
 - Surge immunity test according to EN 61000-4-5:1995 + A1: 2001 (AC/DC Line to Line: ± 1 kV, AC/DC Line to Earth: ± 2 kV)
 - Immunity to conducted disturbances, Induced by radio-frequency fields: EN 61000-4-6:1996 + A1: 2001 (0.15 - 80 MHz with 1 kHz AM 80% Modulation: 3 V/m)
 - Power frequency magnetic field immunity test according to EN 61000-4-8:1993 + A1: 2001 (1 A/m at frequency 50 Hz)
 - Voltage dips, short interruptions and voltage variations immunity test according to EN 61000-4-11:1994 + A1: 2001 (>95% Reduction @10 ms, 30% Reduction @500 ms, >95% Reduction @5000 ms)
- LVD: • EN 60950 (A1/1992; A2/1993; A3/1993; A4/1995; A11/1997)

Industry Canada - Class A

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus," ICES-003 of the Department of Communications.

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe A prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques," NMB-003 édictée par le ministère des Communications.

Wichtige Sicherheitshinweise (Germany)

1. Bitte lesen Sie diese Hinweise sorgfältig durch.
2. Heben Sie diese Anleitung für den späteren Gebrauch auf.
3. Vor jedem Reinigen ist das Gerät vom Stromnetz zu trennen. Verwenden Sie keine Flüssigoder Aerosolreiniger. Am besten eignet sich ein angefeuchtetes Tuch zur Reinigung.
4. Die Netzanschlusßsteckdose soll nahe dem Gerät angebracht und leicht zugänglich sein.
5. Das Gerät ist vor Feuchtigkeit zu schützen.
6. Bei der Aufstellung des Gerätes ist auf sicheren Stand zu achten. Ein Kippen oder Fallen könnte Beschädigungen hervorrufen.
7. Die Belüftungsöffnungen dienen der Luftzirkulation, die das Gerät vor Überhitzung schützt. Sorgen Sie dafür, daß diese Öffnungen nicht abgedeckt werden.
8. Beachten Sie beim Anschluß an das Stromnetz die Anschlußwerte.
9. Verlegen Sie die Netzanschlusßleitung so, daß niemand darüber fallen kann. Es sollte auch nichts auf der Leitung abgestellt werden.
10. Alle Hinweise und Warnungen, die sich am Gerät befinden, sind zu beachten.

11. Wird das Gerät über einen längeren Zeitraum nicht benutzt, sollten Sie es vom Stromnetz trennen. Somit wird im Falle einer Überspannung eine Beschädigung vermieden.
12. Durch die Lüftungsöffnungen dürfen niemals Gegenstände oder Flüssigkeiten in das Gerät gelangen. Dies könnte einen Brand bzw. elektrischen Schlag auslösen.
13. Öffnen sie niemals das Gerät. Das Gerät darf aus Gründen der elektrischen Sicherheit nur von autorisiertem Servicepersonal geöffnet werden.
14. Wenn folgende Situationen auftreten ist das Gerät vom Stromnetz zu trennen und von einer qualifizierten Servicestelle zu überprüfen:
 - a. Netzkabel oder Netzstecker sind beschädigt.
 - b. Flüssigkeit ist in das Gerät eingedrungen.
 - c. Das Gerät war Feuchtigkeit ausgesetzt.
 - d. Wenn das Gerät nicht der Bedienungsanleitung entsprechend funktioniert oder Sie mit Hilfe dieser Anleitung keine Verbesserung erzielen.
 - e. Das Gerät ist gefallen und/oder das Gehäuse ist beschädigt.
 - f. Wenn das Gerät deutliche Anzeichen eines Defektes aufweist.
15. Zum Netzanschluß dieses Gerätes ist eine geprüfte Leitung zu verwenden. Für einen Nennstrom bis 6A und einem Gerätegewicht größer 3kg ist eine Leitung nicht leichter als H05VV-F, 3G, 0.75mm² einzusetzen.

Der arbeitsplatzbezogene Schalldruckpegel nach DIN 45 635 Teil 1000 beträgt 70dB(A) oder weniger.

EliteConnect™ Mini-POS Ticket Printer

Table of Contents

1. Unpacking	9
A. Standard Package	9
2. Indicators and Connections	9
A. Front Panel of the Printer	9
B. Rear View of the Printer	9
C. Loading Paper Roll	10
3. Self Test of the Printer	10
4. Using the Printer	11
A. Connecting the Mini-POS Ticket Printer to the Wireless Hotspot Gateway	11
B. Configuring the Printer for Ticket Printing	12
5. Specifications	13
A. Physical Characteristics	13
B. Printer Font	13
C. Print Paper	13
6. Pinouts	14
A. Serial Connection	14
B. Parallel Connection	14
C. Power Input	15
D. Cash Drawer Port	15
7. Command Set	16

1. Unpacking

A. Standard Package

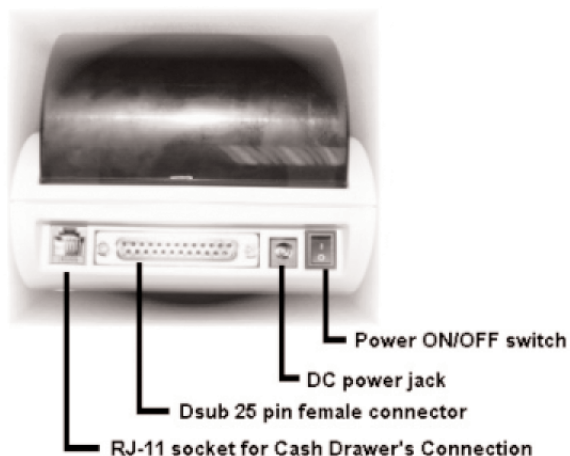
1) EliteConnect™ Mini-POS Ticket Printer	1 piece
2) Control Keypad	1 piece
3) User's Guide	1 piece
4) Y Cable	1 piece
5) Printer Cable	1 piece
6) Power Adapter (7.5 VDC output)	1 piece
7) Power Cord	1 piece
8) Paper Roll	1 piece

2. Indicators and Connections

A. Front Panel of the Printer

Power Indicator	Shows power on/off status
Error Indicator	Shows error status: On: Printer is on line Off: Printer is off line Blinking: 160 ms interval - out of paper 300 ms interval - print head overheated (Wait till print head cools off then resume printing. The error indicator stops blinking when the temperature drops below 40±C.)
Feed Button	Advances paper roll (the button is inoperable when error indicator blinks)
Online Button	Switches printer online or offline

B. Rear Panel of the Printer



C. Loading Paper Roll



1) Open the top cover by lifting firmly from the indented hold spaces located on the front left and right side of the cover.



2) Place the paper roll in the paper compartment. Make sure that the leading end of the paper roll is fed from the bottom of the roll. Pull the leading end of the paper roll past the front panel of the printer.



3) Close the top cover and make sure the roller sits firmly on top of the leading end of the paper roll.

3. Self Test of the Printer

- Power up the printer while pressing and holding down the Online button. Power Indicator comes on and Error Indicator goes out.
- Release the Online button. The printer prints out a successful test page.
- Error Indicator turns back on.

SELFTEST

Interface: Centronics

!"#\$%&'()*+,-./0123456789:;=<?@

@ABCDEFGHIJKLMNPQRSTUVWXYZ[\]^_`

abcdefghijklmnopqrstuvwxyz{|}~

國際一二級字庫

~~~~~

SELFTEST OK!

## 4. Using the Printer

### A. Connecting the Mini-POS Ticket Printer to the Wireless Hotspot Gateway

- Locate an optimum location for the printer. In most instances, the best place for the printer is close to the keypad and Hotspot Gateway.
- Using the Y-type cable provided (as shown in Figure 1), connect the 7-pin serial (PS/2) cable end to the keypad, shown as Figure 2.



Fig. 1. Y-cable



Fig. 2. Connect Y-cable to keypad.

- Then, connect the 9-pin (female) cable end to the Hotspot Gateway serial port, shown as Figure 3.



Fig. 3. Connect Y-cable to Hotspot Gateway serial port.

- Using the printer cable provided, as shown in Figure 4, connect the 25-pin cable end of the printer cable to the printer, shown in Figure 5.



Fig. 4. Printer cable



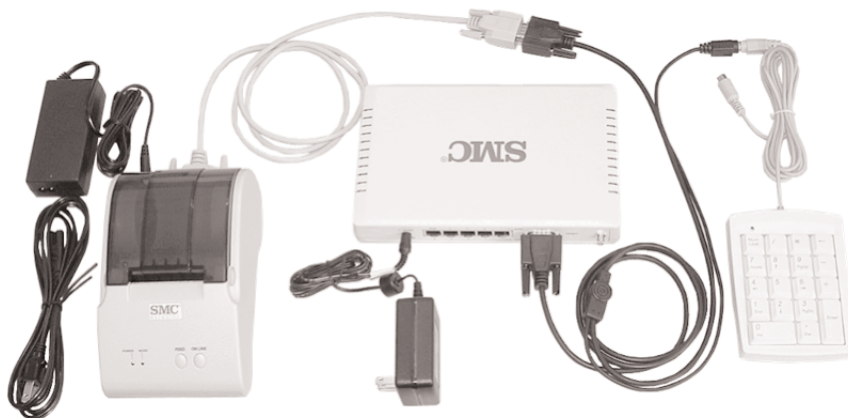
Fig. 5. Connect 25-pin cable to the printer.

- Then, connect the 9-pin end of the cable to the Y-type cable's 9-pin (male) connector, shown in Figure 6.



Fig. 6. Connect the printer cable to the Y-cable.

- Connect the AC power adapter to the printer's power socket and the other end to the electrical outlet.



**NOTE:** Use of a different adapter may result in product damage.

## **B. Configuring the Wireless Hotspot Gateway and Printer for Ticket Printing**

Detailed instructions can be found in the EliteConnect 2.4GHz 802.11g Wireless Hotspot Gateway User Guide. **Please see sections 1.8.6 to 1.8.6.3**

## 5. Specifications

### A. Physical Characteristics

|                       |                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Print Method          | Direct thermal                                                                                                                |
| Paper Width           | 57.5 mm $\pm$ 0.5 mm                                                                                                          |
| Effective Print Width | 48 mm                                                                                                                         |
| Print Speed           | Approx. 52 mm/sec or 14 lines/sec                                                                                             |
| Print Head            | Print density: 384 dots/line or 8 dots/mm<br>Print dot space: 0.125 mm<br>Print life: 50 km<br>Overheat suspension protection |
| Interface (Serial)    | Dsub 25-pin female connector<br>9600 bps, none, 8 bits, 1 stop bit<br>RTS/CTS and Xon/Xoff protocol                           |
| Interface (Parallel)  | Dsub 25-pin male connector<br>8 bits, BUSY protocol                                                                           |
| Cash Drawer Port      | DC 12V/1A, 6-wire RJ-11 socket                                                                                                |
| Net Weight            | 740 g (without cable and paper roll)                                                                                          |
| Dimensions            | 185 mm (L) x 114 mm (W) x 90 mm (H)                                                                                           |
| Operating Environment | Temperature: 0 - 50°C<br>Humidity: 10 - 80 RH                                                                                 |
| Power Input           | DC 8V/3.5A                                                                                                                    |

### B. Printer Font

|                 |                                         |
|-----------------|-----------------------------------------|
| ASCII Character | 12 x 24 dots, 1.25 mm (W) x 3.00 mm (H) |
| Print Commands  | ESC/POS                                 |

### C. Print Paper

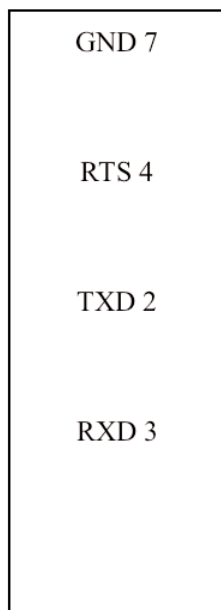
|              |                                                                                      |
|--------------|--------------------------------------------------------------------------------------|
| Type         | Thermal                                                                              |
| Model Number | TF50KS-E (Japan Paper Co. Ltd.)<br>AF50KS-E (JUJO Thermal)                           |
| Parameters   | Width: 57.5 $\pm$ 0.5 mm<br>Max diameter: 50 mm<br>Thickness: 53-60 g/m <sup>2</sup> |

## 6. Pinouts

### A. Serial Connection

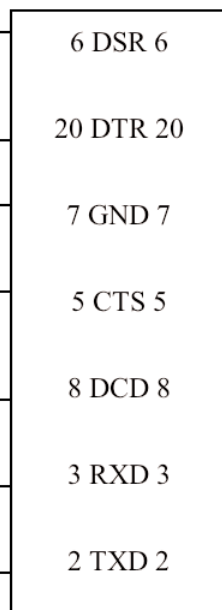
Printer Dsub 25-pin

Serial Socket



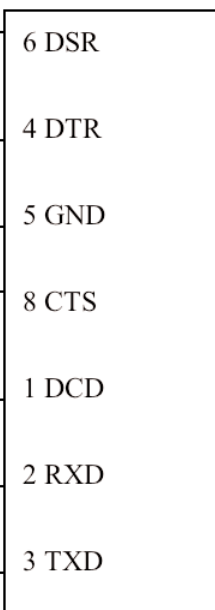
POS Dsub 25-pin

Serial Socket



POS Dsub 9-pin

Serial Socket



### B. Parallel Connection

| Pin# | Signal | Pin#  | Signal |
|------|--------|-------|--------|
| 1    | /STB   | 15    | N/C    |
| 2    | DATA1  | 16    | N/C    |
| 3    | DATA2  | 17    | N/C    |
| 4    | DATA3  | 18~25 | GND    |
| 5    | DATA4  |       |        |
| 6    | DATA5  |       |        |
| 7    | DATA6  |       |        |
| 8    | DATA7  |       |        |
| 9    | DATA8  |       |        |
| 10   | /ACK   |       |        |
| 11   | BUSY   |       |        |
| 12   | GND    |       |        |
| 13   | SEL    |       |        |
| 14   | /ERR   |       |        |

### C. Power Input



PRP-058 requires DC 7.5V/2.0A power.

### D. Cash Drawer Port

| Pin# | Signal       | Description                       |
|------|--------------|-----------------------------------|
| 1.   | N/C          |                                   |
| 2.   | Drive Signal | Cash drawer drive signal (output) |
| 3.   | Drive Signal | Cash drawer drive signal (output) |
| 4.   | DC +12V      | Output power                      |
| 5.   | DC +12V      | Output power                      |
| 6.   | N/C          |                                   |



## 7. Command Set

| No. | Command                  | Hex Code                                                                     | Function Description                                                                                                                                                                                                                                             |
|-----|--------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | LF                       | 0A                                                                           | Prints out buffer and advances one line                                                                                                                                                                                                                          |
| 2   | ESC J n                  | 1B 4A n<br>18<=n<=FF                                                         | Prints out buffer and advances n lines                                                                                                                                                                                                                           |
| 3   | ESC 2                    | 1B 32                                                                        | Sets line space to 1/6 inch or 30 dots                                                                                                                                                                                                                           |
| 4   | ESC 3 n                  | 1B 33 n<br>0B<=n<=FF                                                         | Sets line space to n dots, n=30 default                                                                                                                                                                                                                          |
| 5   | ESC ! n                  | 1B 21 n<br>n=00, 10,<br>20, 30                                               | Sets fond size, n=00 default<br>n=10 double height<br>n=20 double width<br>n=30 double height and double width (This command gets overridden by ESC DC4 command.)                                                                                                |
| 6   | ESC SO                   | 1B 0E                                                                        | Sets double width printing for all characters subsequent to the command in a line (This command gets overridden by LF, CR, or ESC DC4 command.)                                                                                                                  |
| 7   | ESC DC4                  | 1B 14                                                                        | Resets to default font size                                                                                                                                                                                                                                      |
| 8   | ESC c 5 n                | 1B 63 35 n<br>00<=n<=01                                                      | Enables Feed & Online buttons n=00 default<br>Disables Feed & Online buttons n=01<br>(The buttons get enabled automatically when paper roll being loaded.)                                                                                                       |
| 9   | ESC * m n1<br>n2 d1...dx | 1B 2A m n1<br>n2 d1...dx<br>m=01, 21<br>00<=n1<=FF<br>n2=00, 01<br>00<=d<=FF | Sets dot matrix<br>m=01 8 dots double density<br>m=21 24 dots double density<br>n1+256*n2 total number of horizontal dots<br>d=1 to print the dot<br>d=0 not to print the dot<br>x denotes the data number<br>x=n1+256*n2 when m=01<br>x=(n1+256*n2)*3 when m=21 |
| 10  | ESC @                    | 1B 40                                                                        | Initializes printer and sets all defaults                                                                                                                                                                                                                        |
| 11  | ESC p<br>m n1 n2         | 1B 70 m<br>n1 n2<br>m=00<br>01<n1<=n2<br>n1<=n2<FF                           | Controls cash drawer<br>n1 is the time for attracting micro-switch<br>n2 is the time for starting next attractive command, attractive time interval=n1*2ms, response time interval=n2*2ms                                                                        |

## FOR TECHNICAL SUPPORT, CALL:

From U.S.A. and Canada (24 hours a day, 7 days a week)

(800) SMC-4-YOU; Phn: (949) 679-8000; Fax: (949) 679-1481

From Europe : Contact details can be found on

[www.smc-europe.com](http://www.smc-europe.com) or [www.smc.com](http://www.smc.com)

## INTERNET

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[techsupport@smc.com](mailto:techsupport@smc.com)

[european.techsupport@smc-europe.com](mailto:european.techsupport@smc-europe.com)

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| North West Africa:  | 34 93 477 4920     | Fax 34 93 477 3774      |
| CIS:                | 7 (095) 7893573    | Fax 7 (095) 789 357     |
| PRC:                | 86-10-6235-4958    | Fax 86-10-6235-4962     |
| Taiwan:             | 886-2-87978006     | Fax 886-2-87976288      |
| Asia Pacific:       | (65) 238 6556      | Fax (65) 238 6466       |
| Korea:              | 82-2-553-0860      | Fax 82-2-553-7202       |
| Japan:              | 81-45-224-2332     | Fax 81-45-224-2331      |
| Australia:          | 61-2-8875-7887     | Fax 61-2-8875-7777      |
| India:              | 91-22-8204437      | Fax 91-22-8204443       |

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